

FIGURE I DECELERATION

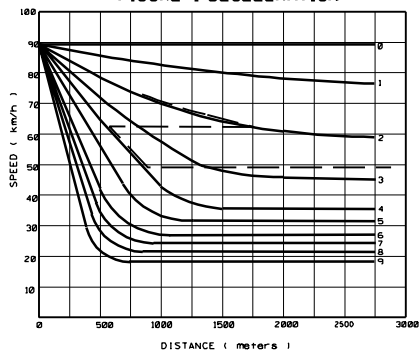


FIGURE II ACCELERATION

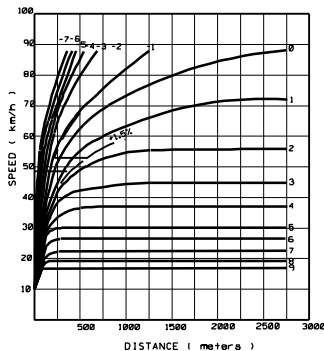
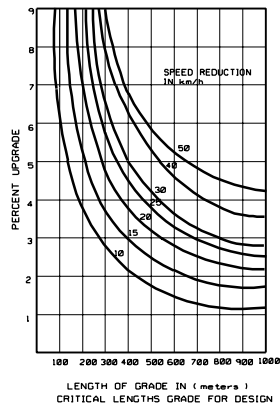


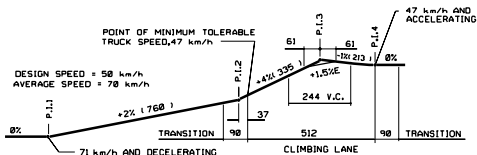
FIGURE III

**EXAMPLE OF USE OF CURVES**

(FIGURES I AND II)

- (1) DASHED LINES ON GRAPH INDICATE STEPS TO FIND PROPER LENGTH AND LOCATION OF CLIMBING LANE SHOWN ON SKETCH.
- (2) a. WHEN A.D. < 4% THE V.C. IS IGNORED AND THE DISTANCE BETWEEN P.I.'S ARE USED.
b. WHEN A.D. > 4% THE V.C. SHOULD BE APPROXIMATED BY THE USE OF AN AVERAGE GRADE CONNECTING THE QUARTER POINTS ON THE SEMENTANGENTS OF THE V.C. (SEE P.I.3 ON SKETCH).

A.D. = ALGEBRAIC DIFFERENCE.

**EXAMPLE****NOTES**

- FIGURE I SHOWS HOW FAR A TYPICAL HEAVY TRUCK TRAVELS UP VARIOUS GRADES OR COMBINATION OF GRADES BEFORE A CERTAIN LOWER SPEED IS REACHED.
- FIGURE II SHOWS PERFORMANCE WHEN THE TRUCK APPROACHES THE GRADE AT OR BELOW CRAWL SPEED
- FIGURE III GIVES THE CRITICAL LENGTH OF GRADE RELATED TO PERCENT UPGRADE AND SPEED REDUCTION

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL

EQUADORS STAIRWAYS COMMITTEE

APPROVED

SENIOR DIRECTOR

DATE

DATE

DATE

NO. DATE

REMARKS

(METRIC)

**CLIMBING LANES
EXAMPLE**

STANDARD DRAWING TITLE

STD. DWG. NO.
810-58